

Geoinformatics is a scientific field primarily within the domains of Computer Science and technical geography. It focuses on the programming of applications, spatial data structures, and the analysis of objects and space-time phenomena related to the surface and underneath of Earth and other celestial bodies. The field develops software and web services to model and analyse spatial data, serving the needs of geosciences and related scientific and engineering disciplines. The term is often used interchangeably with Geomatics, although they are not exactly same. The field of geomatics is a comprehensive discipline encompassing both geodesy and geoinformatics, thus offering a more extensive scope.¹

In the present book, ten typical literatures about geoinformatics published on international authoritative journals were selected to introduce the worldwide newest progress, which contains reviews or original researches on geoinformatics. We hope this book can demonstrate advances in geoinformatics as well as give references to the researchers, students and other related people.

The Editorial Board of Academic Archives
Scientific Research Publishing
May 11, 2026

¹ <https://en.wikipedia.org/wiki/Photonics>